

PROJECT TITLE : ROSA  
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The effect of nitrosation inhibitors on the cigarette sidestream smoke nitrosamine delivery (DMN/NPY + tobacco specific nitrosamines) was investigated (1). Nine different inhibitors were tested as filler additives. The additives used are shown in Table 1. Cigarettes used were hand made from Burley #S-B-Bu tobacco (Project SPOTLESS).

The results of the investigations, calculated on a ng/puff basis, were positive in the case of urea, sugars (glucose, sucrose, fructose 1 : 1 : 1 cocktail) and cysteine. Further work is under way to confirm this finding.

REFERENCE

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(1) Murray-M., PME Monthly Progress Report, June 1981.

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TABLE 1

<u>ADDITIVES</u>	<u>APPLICATION LEVEL</u>
Reducing sugar cocktail	0, 5, 10, 15g/100g tob.
Sorbic acid	10, 25, 50mg/cig.
Sorbic acid + potassium sorbate (50 : 50)	10, 25, 50mg/cig.
Vanillin	10, 25, 50mg/cig.
Butylated hydroxy anisole	(BHA) 10, 25 50mg/cig.
Butylated hydroxy toluene	(BHT) 10, 25, 50mg/cig.
Potassium bisulfite	10, 25, 50mg/cig.
Cysteine	10, 25, 50mg/cig.
Urea	0, 3, 5, 7, 10g/100g tob.

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